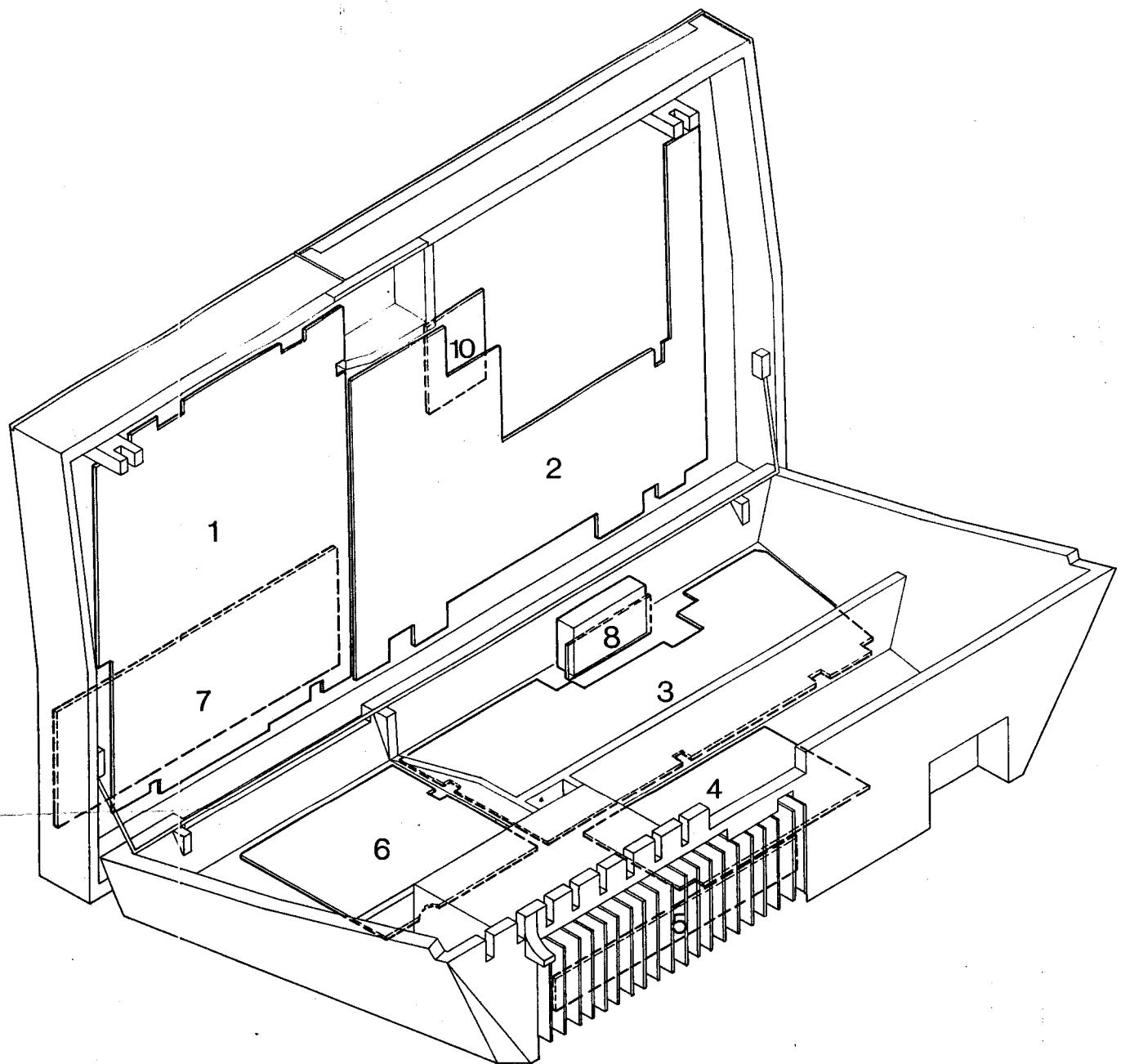


Bang & Olufsen



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**BEOCORD 8000**

Type 4821, 4822, 4823, 4824, 4825, 4826  
01-80 3534161

## EXPLANATION TO DIAGRAM

### INTERNAL CONNECTION ON A DIAGRAM PAGE

### CONNECTION TO ANOTHER DIAGRAM PAGE

### GROUND SYMBOLS

### CO-ORDINATE NUMBERS

## ERLÄUTERUNGEN ZUM SCHALTBILD

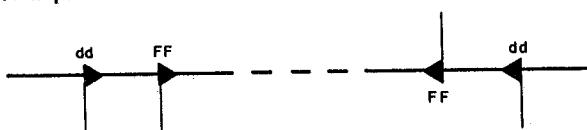
### INTERNE VERBINDUNG AUF EINER SCHALTBILDSEITE

### VERBINDUNG ZU EINER ANDEREN SCHALTBILDSEITE

### MASSE SYMBOLE

### KOORDINATENNUMMERN

The wire connections have been gathered into »bundles« in the diagram. The individual wire is provided with codes indicating where they lead to.



indicating by two identical letters (capital or small).

Diagram 2

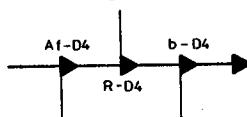
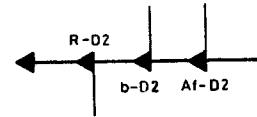


Diagram 4



indicated by a letter (capital or small) and a diagram (D) number or by a small and a capital letter together with a diagram (D) number.

Two different ground symbols are used in the set.



= ground (motors, display, magnet, coils, etc.)



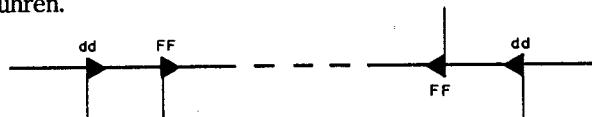
= signal ground



Signal voltages must be measured in relation to signal ground in order to obtain correct result.

The biggest PC boards are provided with co-ordinate systems. The components on these PC boards are provided with a co-ordinate number on the diagram (smaller printing type than the position numbers) indicating in which co-ordinate they are placed on the PC board.

Die Leitungsverbindungen sind im Schaltbild in »Bündeln« gesammelt. Die einzelnen Leitungen sind mit Coden versehen, die angeben, wohin die Leitungen führen.



sind mit zwei gleichen Buchstaben (gross oder klein) angegeben.

Diagramm 2

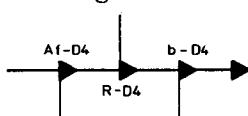
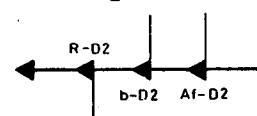


Diagram 4



sind mit einem Buchstaben (gross oder klein) und einem Schaltbild (D) Nummer oder mit einem kleinen und einem grossen Buchstaben zusammen mit einer Schaltbild (D) Nummer angegeben.

Im Gerät werden 2 verschiedene Masse-Symbole verwandt.



= Masse (Motoren, Display, Saugspulen, etc).



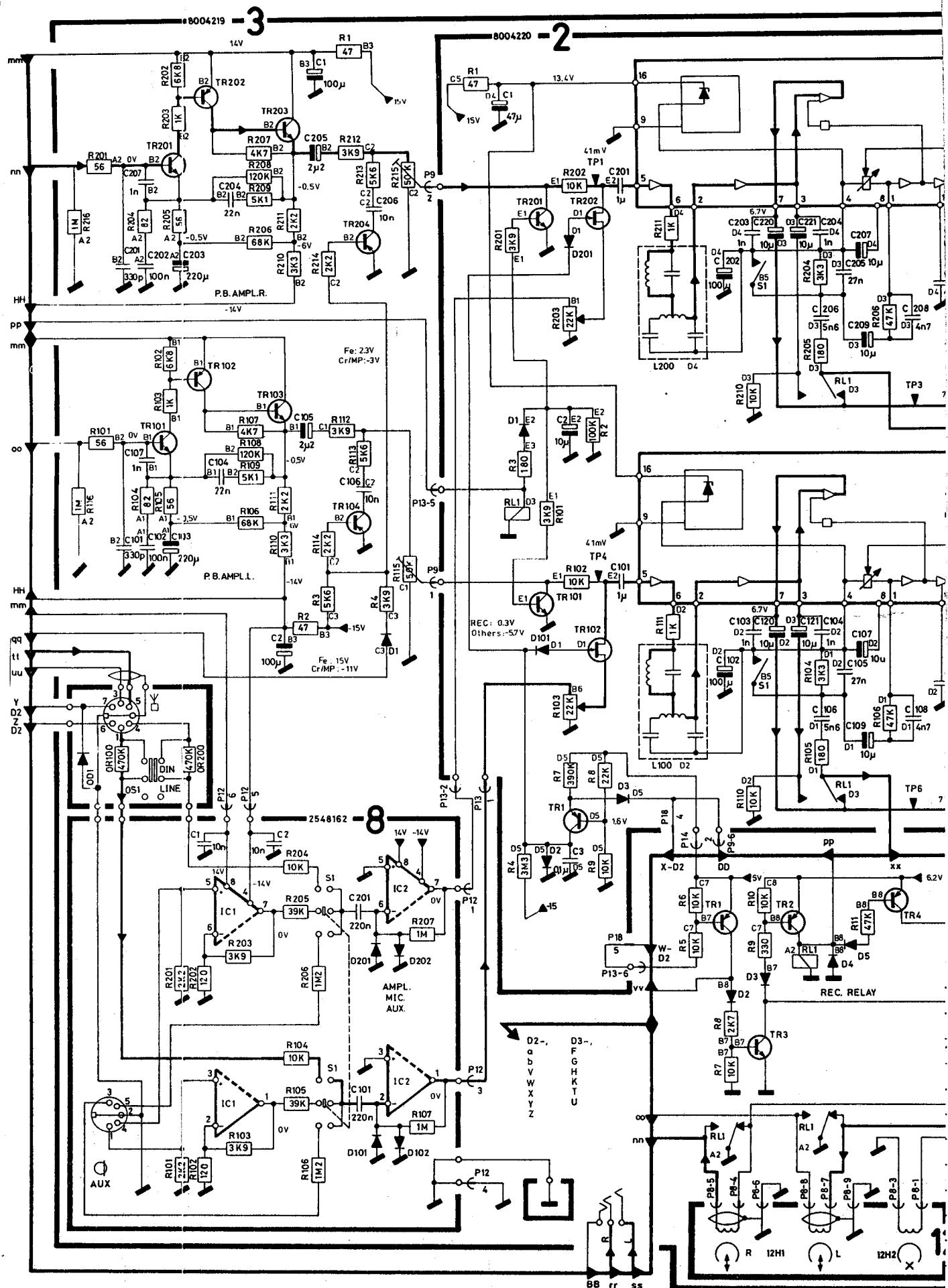
= Signal-Masse

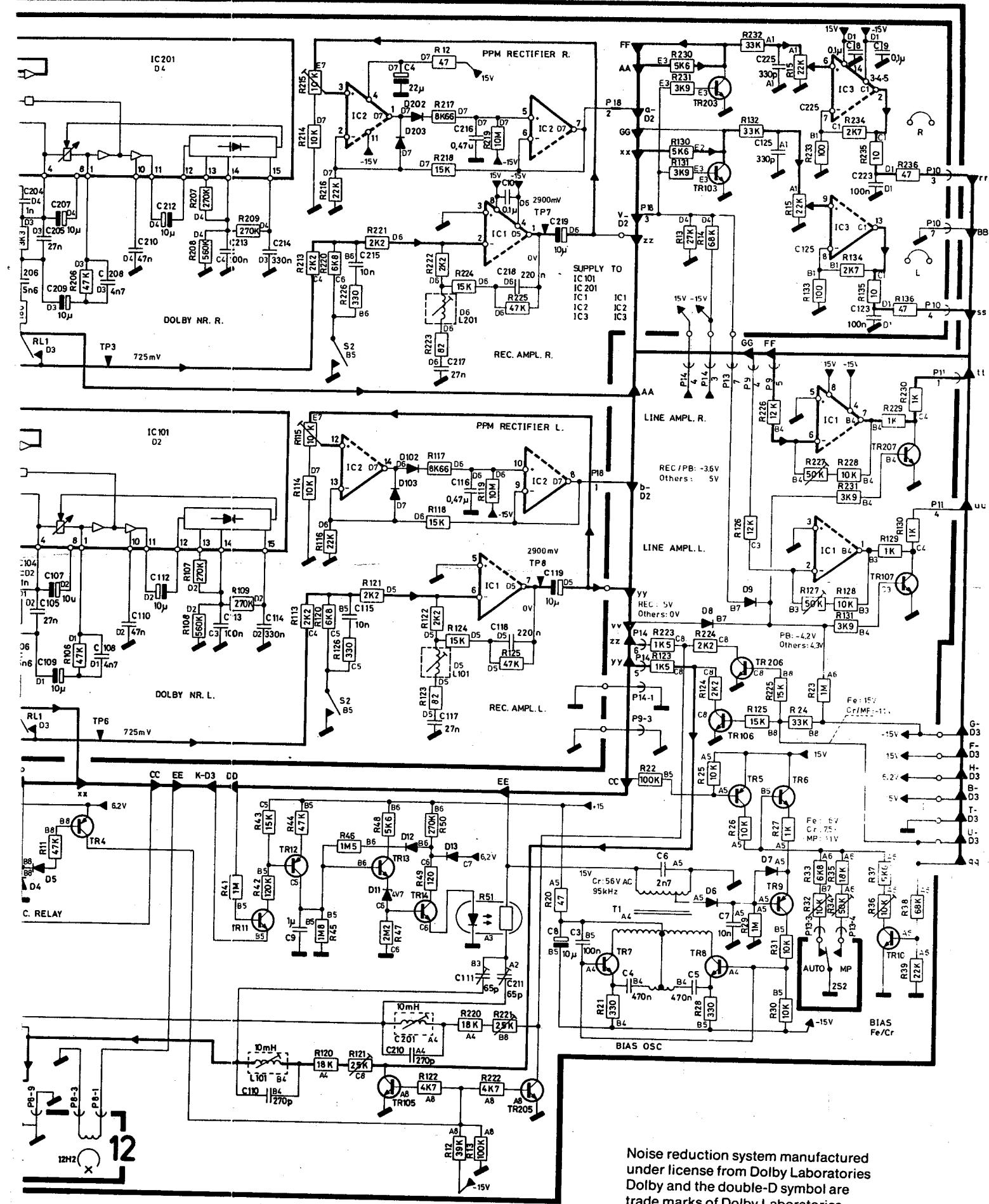
Signal-Spannungen müssen im Verhältnis zu Signal Masse gemessen werden, um ein korrektes Ergebnis zu erhalten.

Die grössten Printplatten sind mit einem Koordinatensystem versehen. Die Komponenten auf diesen Printplatten sind im Schaltbild mit einer Koordinatennummer (kleinerem Schrifttyp als der Positionsnummer) versehen, die erklärt in welcher Koordinate auf der Printplatte sie angebracht sind.

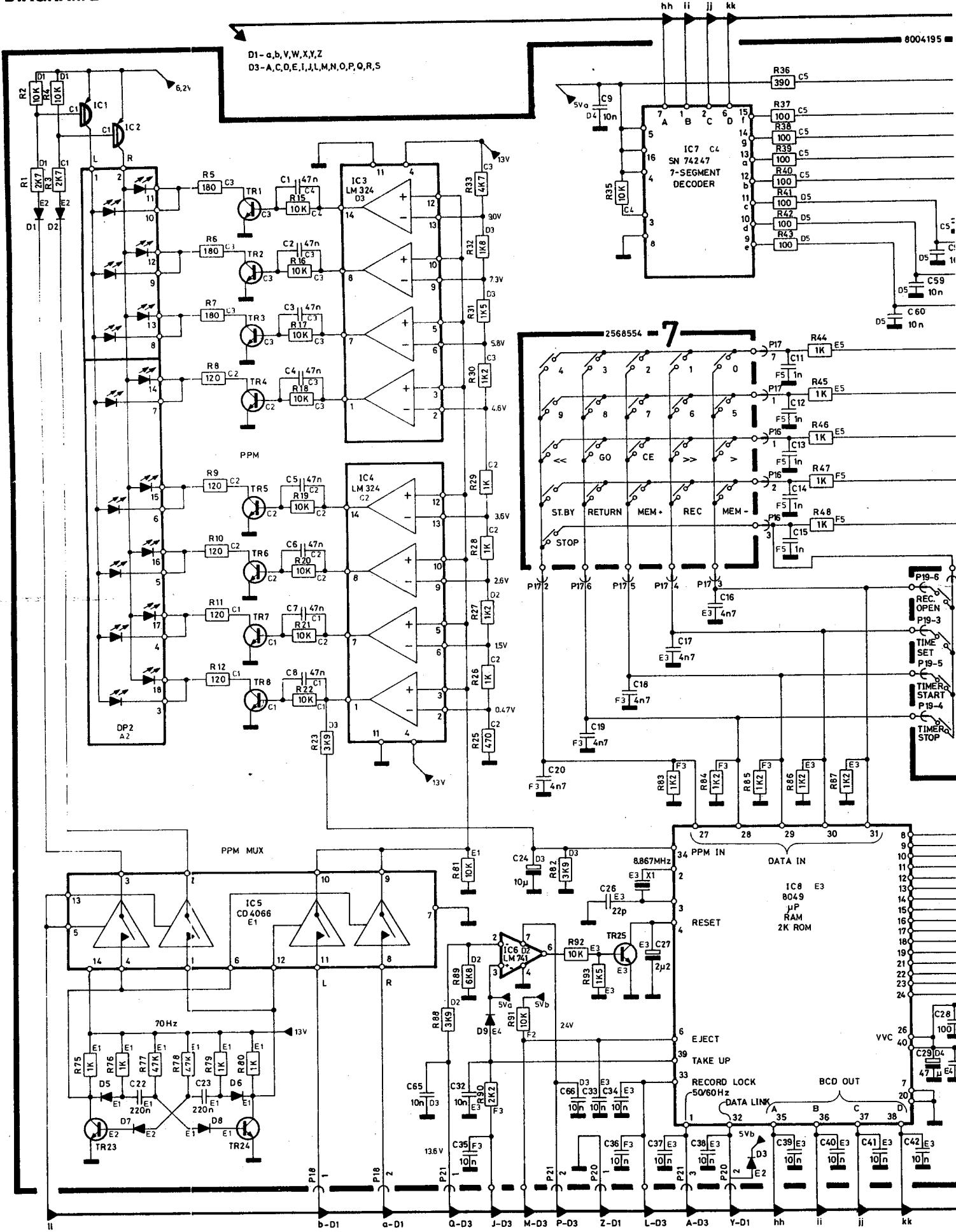
**Bang & Olufsen**

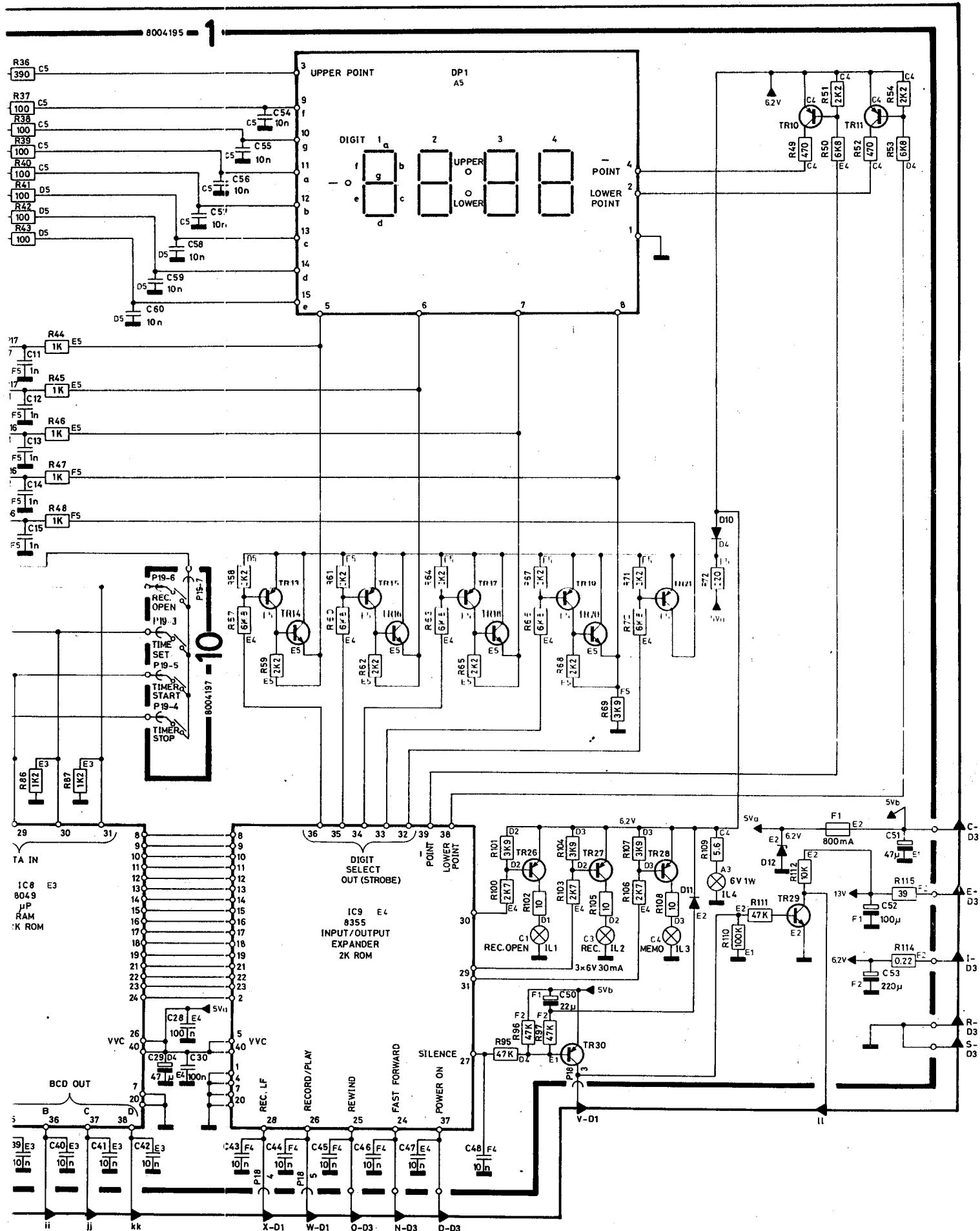
## DIAGRAM 1





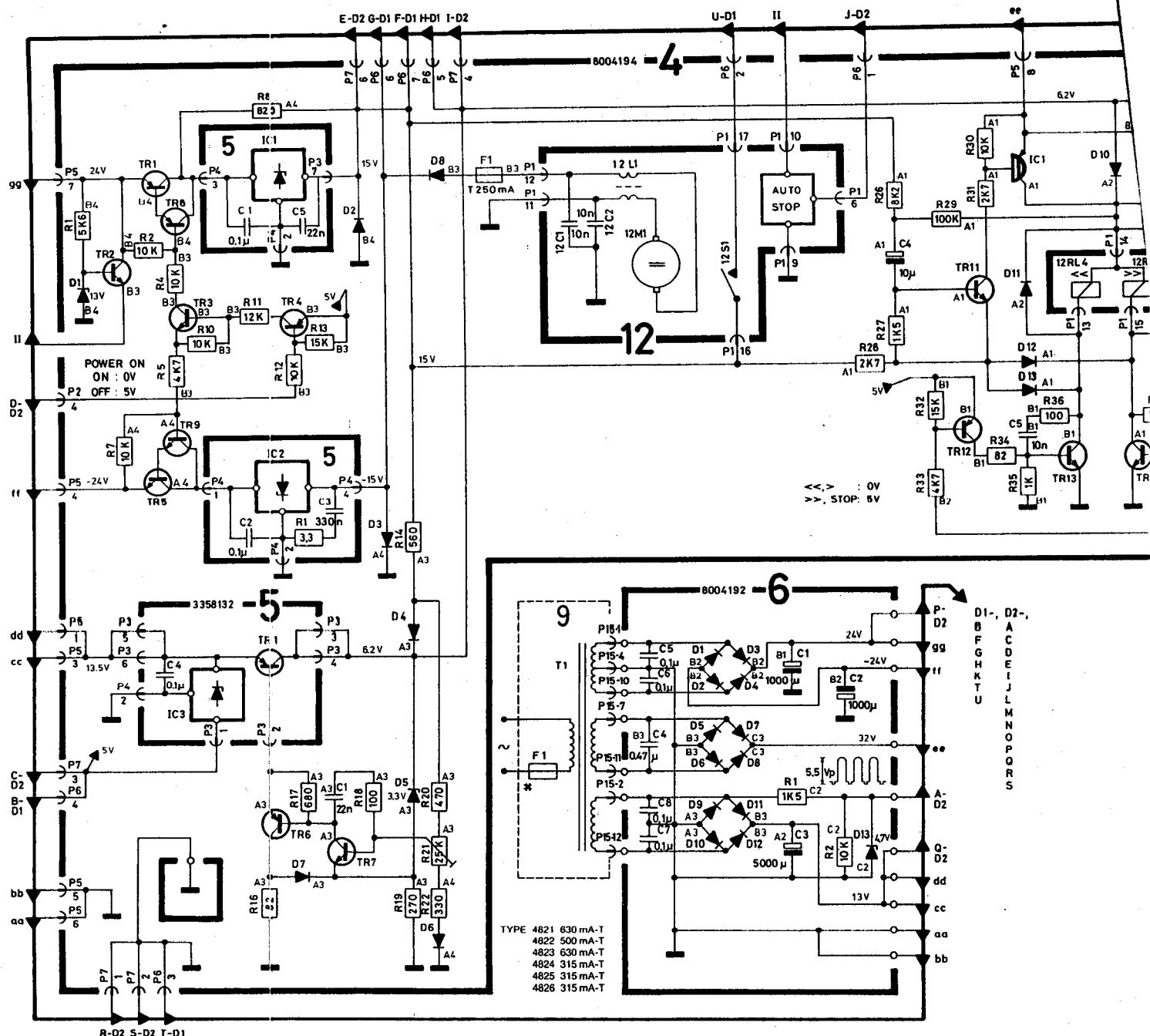
## DIAGRAM 2



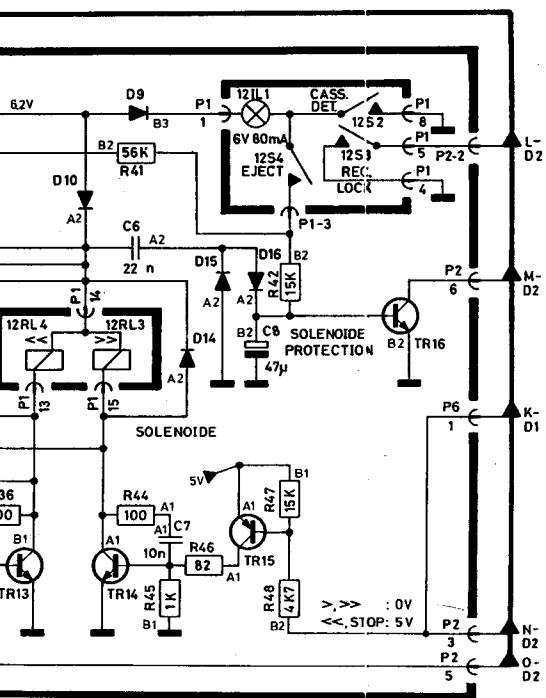


**Bang & Olufsen**

### DIAGRAM 3



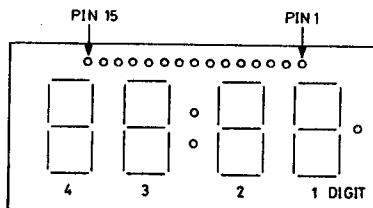
## FUNCTION TABLE DIAGRAM 2



### Switches:

- 12S1 Fe<sub>2</sub>O<sub>3</sub> ON, CrO<sub>2</sub> OFF.
- 12S2 With cass. ON, without OFF.
- 12S3 Rec. ON, Rec lock OFF.
- 12S4 Play ON, Press eject OFF.

| PIN | ASSIGNMENT (BOTTOM VIEW) |
|-----|--------------------------|
| 1   | COMMON CATHODE (POINTS)  |
| 2   | LOWER POINT ANODE        |
| 3   | UPPER POINT ANODE        |
| 4   | -POINT ANODE             |
| 5   | DIGIT 1 ANODE            |
| 5   | DIGIT 2 ANODE            |
| 7   | DIGIT 3 ANODE            |
| 8   | DIGIT 4 ANODE            |
| 9   | SEG. fCATHODE            |
| 10  | SEG. gCATHODE            |
| 11  | SEG. aCATHODE            |
| 12  | SEG. bCATHODE            |
| 13  | SEG. cCATHODE            |
| 14  | SEG. dCATHODE            |
| 15  | SEG. eCATHODE            |



FUNCTION TABLE FOR MICROCOMPUTER 1IC8-1IC9

| PIN | CONDITIONS |      |      | FUNCTION  | RESULTS |    |    |    |    |    |    |     |
|-----|------------|------|------|-----------|---------|----|----|----|----|----|----|-----|
|     | 1IC8       | 1IC8 | 1IC8 |           | 24      | 25 | 26 | 27 | 28 | 37 | 30 | 29  |
|     | 1          |      |      | STAND BY  | 1       | 1  | 1  | 0  | 0  | 1  |    |     |
|     | 1          | 1    | 1    | REC OPEN  |         |    | 1  |    | 0  | 0  | 0  | 1   |
|     | 1          | 1    | 1    | RECORD    | 0       | 0  | 0  | 1  | 1  | 0  | 0  | 0   |
|     | 1          |      |      | STOP      | 1       | 1  | 1  | 0  | 0  | 0  |    | 1   |
|     | 1          |      | 1    | >>        | 0       | 1  | 1  | 0  | 0  | 0  |    | 1   |
|     | 1          |      | 1    | <<        | 1       | 0  | 1  | 0  | 0  | 0  |    | 1   |
|     | 1          |      | 1    | >         | 0       | 0  | 1  | 1  | 0  | 0  |    | 1   |
|     | 1          | 1    | 1    | REC PAUSE | 1       | 1  | 0  | 1  | 1  | 0  | 0  | 1/0 |

FUNCTION TABLE 1IC7 (SN74247)

| DECIMAL<br>ON DISPLAY | INPUTS |   |   |   | OUTPUTS |   |   |   |   |   |   |   |
|-----------------------|--------|---|---|---|---------|---|---|---|---|---|---|---|
|                       | D      | C | B | A | a       | b | c | d | e | f | g |   |
| 0                     | 0      | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1                     | 0      | 0 | 0 | 1 | 1       | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 2                     | 0      | 0 | 1 | 0 | 0       | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 3                     | 0      | 0 | 1 | 1 | 0       | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 4                     | 0      | 1 | 0 | 0 | 1       | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 5                     | 0      | 1 | 0 | 1 | 0       | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 6                     | 0      | 1 | 1 | 0 | 0       | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7                     | 0      | 1 | 1 | 1 | 0       | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 8                     | 1      | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9                     | 1      | 0 | 0 | 1 | 0       | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| □                     | 1      | 0 | 1 | 1 | 1       | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| □                     | 1      | 0 | 1 | 0 | 1       | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| U                     | 1      | 1 | 0 | 0 | 1       | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| □                     | 1      | 1 | 0 | 1 | 0       | 1 | 1 | 0 | 1 | 0 | 0 | 0 |

## EXPLANATION TO DIAGRAM

INTERNAL CONNECTION ON A DIAGRAM PAGE

CONNECTION TO ANOTHER DIAGRAM PAGE

GROUND SYMBOLS

CO-ORDINATE NUMBERS

## ERLÄUTERUNGEN ZUM SCHALTBILD

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VERBINDUNG ZU EINER ANDEREN SCHALTBILDSEITE

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KOORDINATENNUMMERN

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indicating by two identical letters (capital or small).

Diagram 2

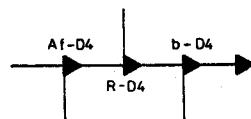
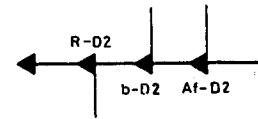


Diagram 4



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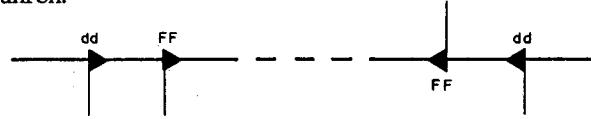
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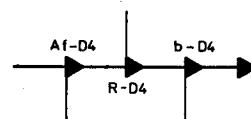
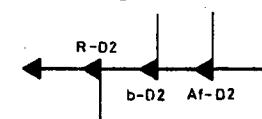


Diagramm 4



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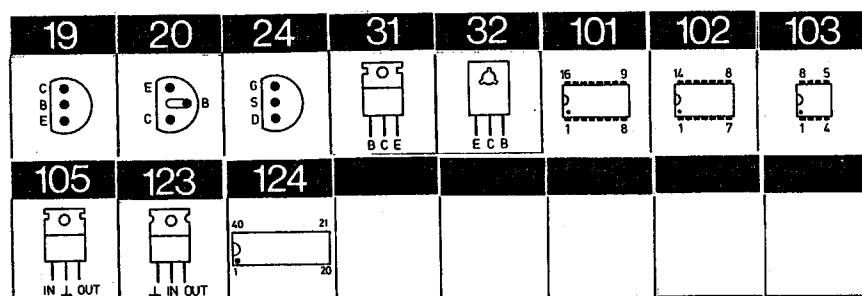
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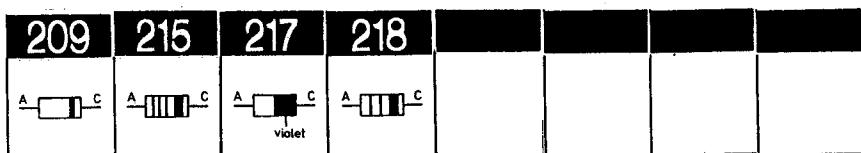
LIST OF TRANSISTORS  
AND IC's



# Bang & Olufsen

|            |         |     |            |       |         |     |                |
|------------|---------|-----|------------|-------|---------|-----|----------------|
| 3TR10      | 8320097 | 20  | BC 547 B   | 4TR7  | 8320097 | 20  | BC 547 B       |
| 3TR11      |         |     |            | 4TR8  | 8320152 | 20  | BC 557 B       |
| 3TR12      | 8320152 | 20  | BC 557 B   | 4TR9  | 8320097 | 20  | BC 547 B       |
| 3TR13      | 8320097 | 20  | BC 547 B   | 4TR11 | 8320321 | 19  | MPS A 06       |
| 3TR14      |         |     |            | 4TR12 | 8320331 | 20  | BC 328-25/18   |
| 3TR101/201 | 8320344 | 20  | BC 550 B   | 4TR13 | 8320441 | 32  | BD 439         |
| 3TR102/202 | 8320069 | 20  | BC 559 B   | 4TR14 |         |     |                |
| 3TR103/203 | 8320097 | 20  | BC 547 B   | 4TR15 | 8320331 | 20  | BC 328-25/18   |
| 3TR104/204 | 8320152 | 20  | BC 557 B   | 4TR16 | 8320097 | 20  | BC 547 B       |
| 3TR105/205 | 8320366 | 19  | NPS A 16   | 4IC1  | 8340207 | 32  | BD 678         |
| 3TR106/206 |         |     |            | 5TR1  | 8320369 | 31  | BP 534         |
| 3TR107/207 | 8320097 | 20  | BC 547 B   | 5IC1  | 8340208 | 105 | UA 78 M 15     |
| 3IC1       | 8340048 | 103 | MC 1458CP1 | 5IC2  | 8340240 | 123 | UA 7915/C      |
| 4TR1       | 8320428 | 32  | BD 438     |       |         |     | 123 LM 3207-15 |
| 4TR2       | 8320097 | 20  | BC 547B    |       |         |     | 123 MC 7915 CT |
| 4TR3       | 8320321 | 19  | MPS A 06   | 5IC3  | 8340212 | 105 | MC 78 M5CT     |
| 4TR4       | 8320152 | 20  | BC 557 B   | 8IC1  | 8340262 | 103 | NE 5532        |
| 4TR5       | 8320427 | 32  | BD 437     | 8IC2  |         |     |                |
| 4TR6       | 8320152 | 20  | BC 557 B   |       |         |     |                |

## LIST OF DIODES



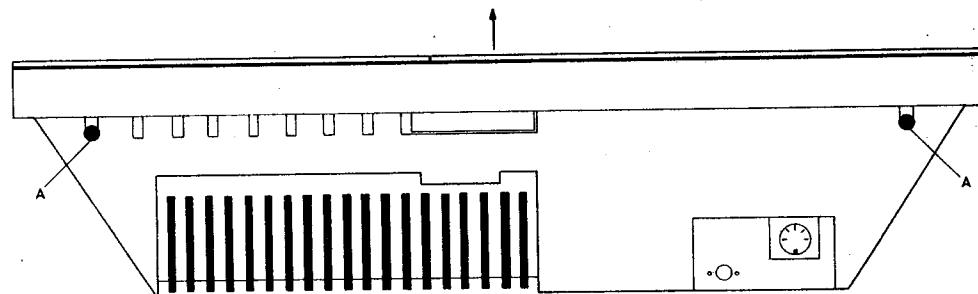
|      |         |     |           |           |         |     |            |
|------|---------|-----|-----------|-----------|---------|-----|------------|
| 0D1  | 8320058 | 217 | SFD 184   | 1D11      | 8300058 | 217 | SFD 184    |
|      |         | 215 | 1N 4148   |           |         | 215 | 1N 4148    |
|      |         | 209 | 1N 4148   |           |         | 209 | 1N 4148    |
| 1D1  | 8300058 | 217 | SFD 184   | 1D12      | 8300201 | 209 | ZPD 6.2V5% |
| 1D2  |         | 215 | 1N 4148   |           |         | 209 | BZX 79C6V2 |
| 1D3  |         | 209 | 1N 4148   |           |         | 209 | BZX 83C6V2 |
| 1D5  |         |     |           | 1DP1      | 8330028 |     | FCS 8499   |
| 1D6  |         |     |           | 1DP2      | 8330014 |     | FNA 0098   |
| 1D7  |         |     |           | 2D1       | 8300058 | 217 | SFD 184    |
| 1D8  |         |     |           | 2D2       |         | 215 | 1N 4148    |
| 1D9  |         |     |           | 2D3       |         | 209 | 1N 4148    |
| 1D10 | 8300189 | 218 | BAV 19    | 2D101/201 |         |     |            |
|      |         | 218 | BA 219/TB | 2D102/202 |         |     |            |

**Bang & Olufsen**

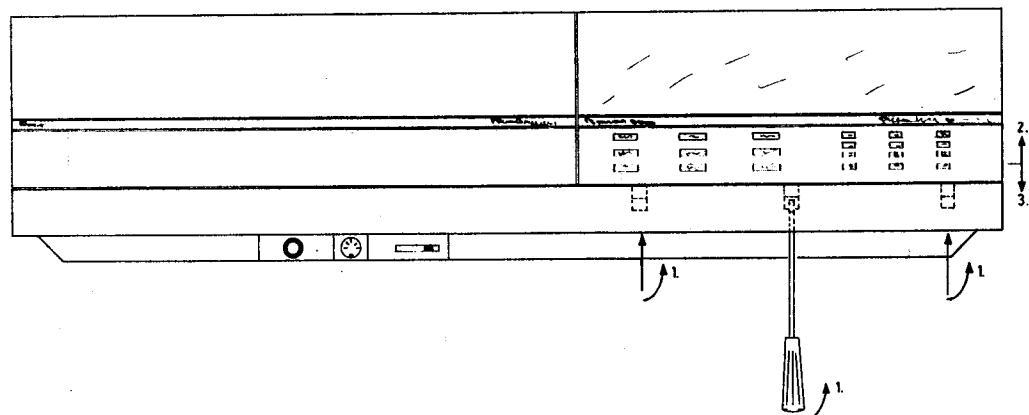
# Bang & Olufsen

## ADSKILLELSE DISASSEMBLY

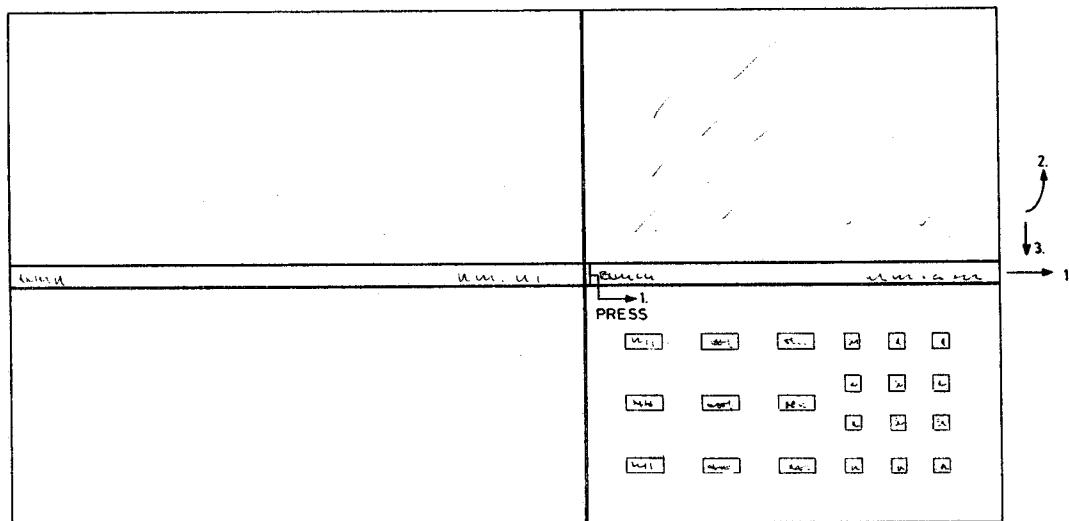
Serviceposition: Skruerne A løsnes  
Service position: Loosen screw A



Betjeningspanel  
Operating panel

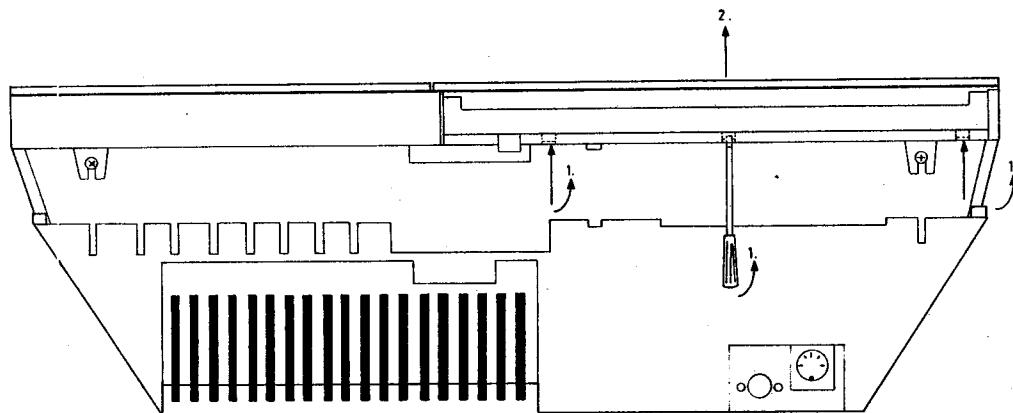


Display dæksel  
Cover for display



# Bang & Olufsen

Toppanel og vippelåg  
Cover and panel



Aluminiumsdækplade  
Aluminium cover

